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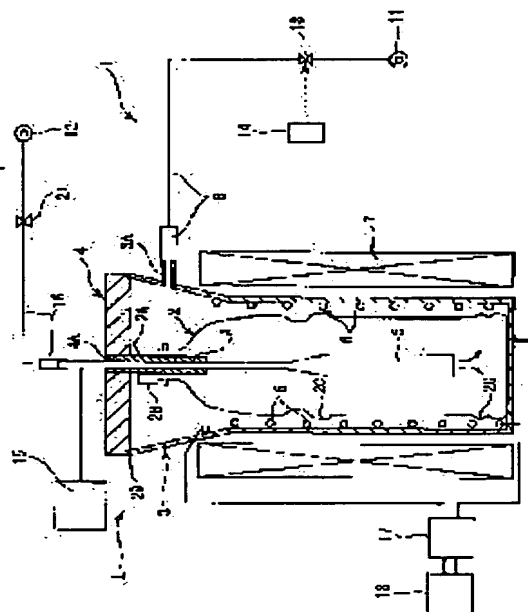
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**(54) METHOD AND DEVICE FOR IMPROVING QUALITY OF SURFACE OF HIGH MOLECULAR COMPOUND CONTAINER**

(57)Abstract:

PROBLEM TO BE SOLVED: To enable a PET container 2 preferable as a container for beer or carbonated beverage to be attained without peeling off a layer of diamond-like carbon due to improving quality of an inner surface of the PET container 2 into that of the diamond-like carbon.

SOLUTION: The PET container 2 is stored in a storing chamber 3. A solenoid coil 7 is magnetically energized from a state in which it is sealingly closed by a lid 4, thereafter a negative pressure is fed into the storing chamber 3. Then, plasma is generated within the storing chamber 3 and a high voltage DC pulse is applied to an electrode 5 from a high voltage power supply 15. In this way, ion is implanted into an inner surface at the PET container 2 to improve its surface itself into the diamond-like carbon.

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